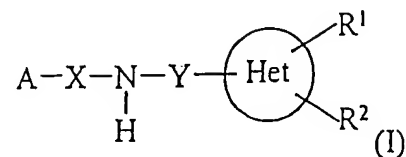


Listing of Claims:

Claim 1 (currently amended) A compound of the formula



in racemic, enantiomeric or diastereoisomeric form and all combinations of these forms,
wherein

R^1 is selected from the group consisting of hydrogen, $-\text{OR}^3$, $-\text{SR}^3$, oxo and cyclic acetal,

R^3 is selected from the group consisting of hydrogen, alkyl, arylalkyl, heterocycloalkylcarbonyl, alkylcarbonyl, arylcarbonyl and aralkylcarbonyl,

the alkyl, aryl or heterocycloalkyl are unsubstituted or substituted by at least one member selected from the group consisting of alkyl, $-\text{OH}$, alkoxy, nitro, cyano, halogen and $-\text{NR}^4\text{R}^5$;

R^4 and R^5 are independently selected from the group consisting of hydrogen or alkyl, or R^4 and R^5 together with the nitrogen atom to which they are attached form an optionally substituted heterocycle,

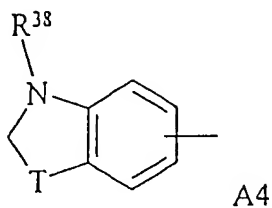
R^2 is selected from the group consisting of hydrogen, alkyl, aryl and aralkyl, the aryl group being unsubstituted or substituted by at least one member selected from the group consisting of $-OR^6$, $-NR^7R^8$, halogen, cyano, nitro and alkyl,

R^6 , R^7 and R^8 are independently selected from the group consisting of hydrogen, an alkyl, aryl, aralkyl, alkylcarbonyl, arylcarbonyl and aralkylcarbonyl,

A is a)

either

or A is

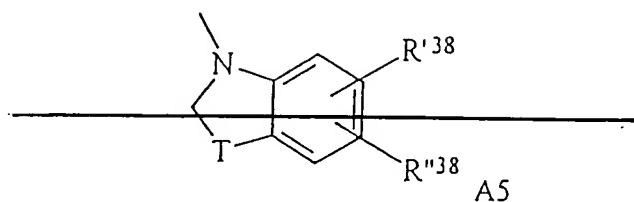


in which R^{38} is selected from the group consisting of hydrogen, alkyl, $-(CH_2)_q-$, $NR^{39}R^{40}$ and aralkyl, the aryl being unsubstituted or substituted by at least one

member selected from the group consisting of -OH, alkyl, halogen, nitro, alkoxy and -NR³⁹R⁴⁰,

q is an integer between 2 and 6;

or



wherein R³⁸ and R^{''38} are independently selected from the group consisting of hydrogen, nitro, -NR³⁹R⁴⁰, alkyl and arylalkyl, the aryl being unsubstituted or substituted by at least one member selected from the group consisting of -OH, alkyl, halogen, nitro, alkoxy and -NR³⁹R⁴⁰;

R³⁹, R⁴⁰, R³⁹ and R⁴⁰ are independently selected from the group consisting of hydrogen, alkyl and -COR⁴¹, or R³⁹ and R⁴⁰ or R³⁹ and R⁴⁰ together with the nitrogen atom form an optionally substituted heterocycle,

R⁴¹ is selected from the group consisting of hydrogen, alkyl, alkoxy and -NR⁴²R⁴³,

R^{42} and R^{43} are independently selected from the group consisting of hydrogen or alkyl, or R^{42} and R^{43} together with the nitrogen atom to which they are attached form an optionally substituted heterocycle,

T is $-(CH_2)_m-$ with $m = 1$ or 2 ,

X is selected from the group consisting of $-(CH_2)_n-$, $-(CH_2)_n-CO-$, $-N(R^{45})-CO-(CH_2)_n-$, $CO-$, $-N(R^{45})-CO-D-CO-$, $-CO-N(R^{45})-D-CO-$, $-CO-D-CO-$, $-CH=CH-(CH_2)_n-$, $CO-$, $-N(R^{45})-(CH_2)_n-CO-$, $-N(R^{45})-CO-C(R^{46}R^{47})-CO-$, $-O-(CH_2)_n-CO-$, $-N(R^{45})-CO-$, $NH-C(R^{46}R^{47})-CO-$, $-CO-N(R^{45})-C(R^{46}R^{47})-CO-$, $-S-(CH_2)_n-CO-$ and $-Z-CO-$;

D is phenylene unsubstituted or substituted by at least one member selected from the group consisting of alkyl, alkoxy, $-OH$, nitro, halogen, cyano, and carboxyl optionally esterified by alkyl;

Z is a heterocycle,

R^{45} is hydrogen or alkyl,

R^{46} and R^{47} are independently selected from the group consisting of hydrogen, alkyl, aryl and aralkyl, the alkyl and aryl groups are unsubstituted or substituted by at least one

member selected from the group consisting of -OH, -SH, halogen, nitro, alkyl, alkoxy, alkylthio, aralkoxy, aryl-alkylthio, -NR⁴⁸R⁴⁹ and carboxyl optionally esterified by alkyl;

R⁴⁸ and R⁴⁹ are independently selected from the group consisting of hydrogen, alkyl and -COR⁵⁰, or R⁴⁸ and R⁴⁹ together with the nitrogen atom to which they are attached form an optionally substituted heterocycle;

R⁵⁰ is selected from the group consisting of hydrogen, alkyl, alkoxy and -NR⁵¹R⁵²,

R⁵¹ and R⁵² are independently hydrogen or alkyl, or R⁵¹ and R⁵² together with the nitrogen atom to which they are attached, form an optionally substituted heterocycle;

n is an integer between 0 and 6;

Y is -(CH₂)_p-, ~~C(R⁵³R⁵⁴)-(CH₂)_p-, and C(R⁵³R⁵⁴)-CO-~~;

~~R⁵³ and R⁵⁴ are independently selected from the group consisting of hydrogen, alkyl and aralkyl, the aryl is unsubstituted or substituted by at least one member selected from the group consisting of -OH, halogen, nitro, alkyl, alkoxy, and -NR⁵⁵R⁵⁶;~~

~~R⁵⁵ and R⁵⁶ are independently selected from the group consisting of hydrogen, alkyl and -COR⁵⁷ or R⁵⁵ and R⁵⁶ together with the nitrogen atom to which they are attached, form an optionally substituted heterocycle;~~

R^{57} is hydrogen, alkyl, alkoxy and $-NR^{56}R^{59}$,

R^{58} and R^{59} are independently selected from the group consisting of hydrogen or alkyl, or R^{58} and R^{59} together with the nitrogen atom to which they are attached form an optionally substituted heterocycle;

p is an integer between 0 and 6;

Het is a heterocycle, and a pharmaceutically acceptable addition salt with acids or bases thereof,

with the exception of the compounds of formula (I) wherein Het is tetrahydrofuran or tetrahydropyran, R^1 is OR^3 , R^3 is selected from the group consisting of hydrogen, alkyl, arylalkyl, heterocycloalkylcarbonyl, the heterocycloalkyl being connected by a carbon atom, alkylcarbonyl, arylcarbonyl or aralkylcarbonyl, R^2 is hydrogen and Y is $-(CH_2)_p-$ with $p=0$, the X is $-CO-N(R^{45})-C(R^{46}R^{47})-CO-$ with $R^{45} = R^{46} = H$.

Claim 2 (previously presented) A compound of claim 1, wherein Het is a monocyclic of 1 to 2 heteroatoms selected from the group consisting of O and N.

Claim 3 (previously presented) A compound of claim 1 wherein Het is selected from the group consisting of tetrahydrofuran, dioxolane, pyrrolidine and 1,3-oxazolidine, and R¹ is selected from the group consisting of hydrogen, -OR³ and oxo.

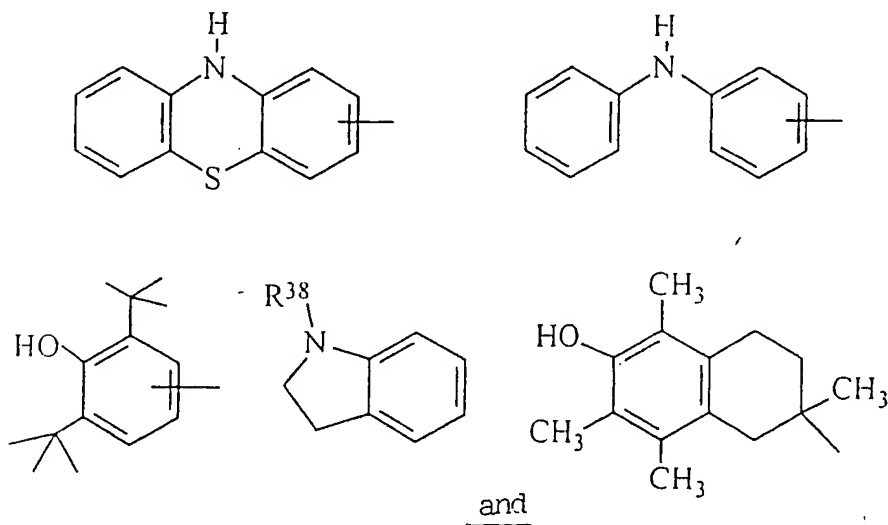
Claim 4 (previously presented) A compound of claim 1 wherein X is selected from the group consisting of -(CH₂)_n-, -(CH₂)_n-CO-, -O-(CH₂)_n-CO-, -CO-N(R⁴⁵)-D-CO-, -N(R⁴⁵)-CO-(CH₂)_n-CO-, -N(R⁴⁵)-CO-C(R⁴⁶R⁴⁷)-CO-, -N(R⁴⁵)-CO-NH-C(R⁴⁶R⁴⁷)-CO-, -N(R⁴⁵)-(CH₂)_n-CO-, -CO-N(R⁴⁵)-C(R⁴⁶R⁴⁷)-CO and -Z-CO-.

Claim 5 (previously presented) A compound of claim 4, wherein R⁴⁵ and R⁴⁷ are hydrogen, R⁴⁶ is selected from the group consisting of hydrogen, alkyl or phenyl, D phenylene and Z is thiazole.

Claim 6 (previously presented) A compound of claim 1 wherein R² is hydrogen or aralkyl.

Claim 7 (currently amended) ~~Compounds according to one of the previous claims, characterized in that~~ A compound of claim 1 wherein A represents is either A1 with W representing the sulphur atom being sulfur; or A'1; or A2 with R²⁴, R²⁵ and R²⁶ which represent, being independently, a hydrogen or an alkyl radical and Q which represents is -OR³³; or A3 with T representing the being -(CH₂)₂- radical; or A4 with T representing the being -(CH₂)- radical,

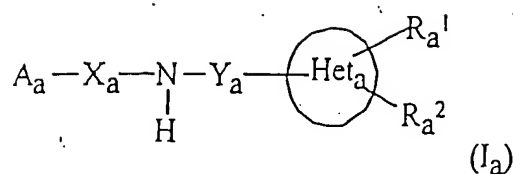
Claim 8 (currently amended) ~~Compounds according to one of the previous claims,~~
characterized in that A compound of claim 1 wherein A represents a radical chosen from
is selected from the group consisting of



Claims 9-10 (cancelled)

Claim 11 (currently amended) A pharmaceutical composition for inhibition of calpains
and/or reactive oxygen species comprising a calpain inhibiting or reactive oxygen
species amount of a compound of claim 1 and a pharmaceutical carrier.

Claim 12 (currently amended) A method of inhibiting calpain and/or reactive oxygen
species in warm-blooded animals comprising administering to warm-blooded animals in
need thereof a calpain inhibiting amount and/or reactive oxygen species inhibiting amount
of a compound of the formula



in racemic, enantiomeric, diastereoisomeric form or all combinations of these forms,

wherein R_a^1 is selected from the group consisting of hydrogen, $-OR^3$, $-SR^3$, oxo and cyclic acetal,

R^3 is selected from the group consisting of hydrogen, alkyl, arylalkyl, heterocycloalkylcarbonyl, alkylcarbonyl, arylcarbonyl and aralkylcarbonyl,

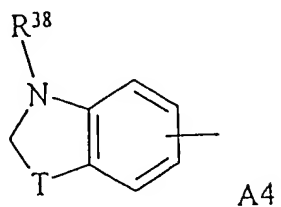
in which the alkyl, aryl or heterocycloalkyl are unsubstituted or substituted by at least one member selected from the group consisting of alkyl, $-OH$, alkoxy, nitro, cyano, halogen and $-NR^4R^5$;

R^4 and R^5 are, independently, hydrogen or alkyl, or R^4 and R^5 together with the nitrogen atom to which they are attached form an optionally substituted heterocycle,

R_a^2 is selected from the group consisting of hydrogen, alkyl, aryl and aralkyl, the aryl being unsubstituted or substituted by at least one member selected from the group consisting of $-OR^6$, $-NR^7R^8$, halogen, cyano, nitro and alkyl,

R^6 , R^7 and R^8 represent, are independently, hydrogen, alkyl, aryl, aralkyl, alkylcarbonyl, arylcarbonyl and aralkylcarbonyl;

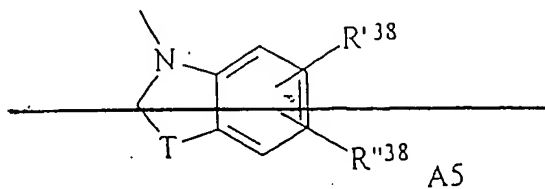
or a) A is



wherein R^{38} is selected from the group consisting of hydrogen, alkyl, $-(CH_2)_q-$, $NR^{39}R^{40}$ and aralkyl, the aryl is unsubstituted or substituted by at least one member selected from the group consisting of $-OH$, alkyl, halogen, nitro, alkoxy and $NR^{39}R^{40}$,

q is an integer between 2 and 6;

or b) A is



~~wherein R^{38} and R^{38} are independently selected from the group consisting of hydrogen, nitro, $NR^{39}R^{40}$, alkyl and arylalkyl, the aryl is unsubstituted or substituted by at least one member selected from the group consisting of OH, the alkyl, halogen, nitro, alkoxy and $NR^{39}R^{40}$;~~

R^{39} , R^{40} , R^{39} and R^{40} are independently selected from the group consisting of hydrogen, alkyl and $-COR^{41}$, or R^{39} and R^{40} or R^{39} and R^{40} together with the nitrogen atom form an optionally substituted heterocycle,

R^{41} is selected from the group consisting of hydrogen, alkyl, alkoxy and $-NR^{42}R^{43}$,

R^{42} and R^{43} are independently selected from the group consisting of hydrogen or alkyl, or R^{42} and R^{43} together with the nitrogen atom to which they are attached form an optionally substituted heterocycle,

T is $-(CH_2)_m-$ with $m = 1$ or 2 ,

X_a is selected from the group consisting of $-(CH_2)_n-$, $-(CH_2)_n-CO-$, $-N(R^{45})-CO-(CH_2)_n-CO-$, $-N(R^{45})-CO-D-CO-$, $-CO-N(R^{45})-D-CO-$, $-CO-D-CO-$, $-CH=CH-(CH_2)_n-CO-$, $-N(R^{45})-(CH_2)_n-CO-$, $-N(R^{45})-CO-C(R^{46}R^{47})-CO-$, $-O-(CH_2)_n-CO-$, $-N(R^{45})-CO-NH-C(R^{46}R^{47})-CO-$, $-CO-N(R^{45})-C(R^{46}R^{47})-CO-$, $-S-(CH_2)_n-CO-$ and $-Z-CO-$;

D is phenylene unsubstituted or substituted by at least one member selected from the group consisting of alkyl, alkoxy, -OH, nitro, halogen, cyano and carboxyl optionally esterified by an alkyl;

Z is a heterocycle,

R⁴⁵ is hydrogen or alkyl;

R⁴⁶ and R⁴⁷ are independently selected from the group consisting of hydrogen, alkyl, aryl and aralkyl, the alkyl and aryl groups are substituted by one member of the group consisting of -OH, -SH, halogen, nitro, alkyl, alkoxy, alkylthio, aralkoxy, aryl-alkylthio, -NR⁴⁸R⁴⁹ and carboxyl optionally esterified by alkyl;

R⁴⁸ and R⁴⁹ are independently selected from the group consisting of hydrogen, alkyl and -COR⁵⁰, or R⁴⁸ and R⁴⁹ together with the nitrogen atom to which they are attached form an optionally substituted heterocycle,

R⁵⁰ is selected from the group consisting of hydrogen, alkyl, alkoxy and -NR⁵¹R⁵²,

R⁵¹ and R⁵² are independently selected from the group consisting of hydrogen or alkyl, or R⁵¹ and R⁵² together with the nitrogen atom to which they are attached form an optionally substituted heterocycle;

n is an integer between 0 and 6;

Y_a is selected from the group consisting of $-(CH_2)_p-$, $-C(R^{53}R^{54})-$, $(CH_2)_p$, and $-C(R^{53}R^{54})-CO-$;

R^{53} and R^{54} are independently selected from the group consisting of hydrogen, alkyl, and aralkyl, the aryl group is unsubstituted or substituted by at least one member selected from the group consisting of OH, halogen, nitro, alkyl, alkoxy and $NR^{55}R^{56}$;

R^{55} and R^{56} are independently selected from the group consisting of hydrogen, alkyl and $-COR^{57}$, or R^{55} and R^{56} together with the nitrogen atom to which they are attached form an optionally substituted heterocycle;

R^{57} is selected from the group consisting of hydrogen, alkyl, alkoxy and $NR^{58}R^{59}$;

R^{58} and R^{59} are independently selected from the group consisting of hydrogen or alkyl, or R^{58} and R^{59} together with the nitrogen atom to which they are attached form an optionally substituted heterocycle;

p is an integer between 0 and 6;

Het_a is a heterocycle,

and pharmaceutically acceptable addition salts thereof with acids or bases;

Claims 13-15 (cancelled)

Claim 16 (previously presented) The method of claim 12 wherein Het is a monocyclic containing 1 to 2 heteroatoms of O or N.

Claim 17 (previously presented) The method of claim 12 wherein Het is selected from the group consisting of tetrahydrofuran, dioxolane pyrrolidine, and 1,3-oxazolidine, and R^1 is selected from the group consisting of hydrogen, $-OR^3$ and oxo.

Claim 18 (previously presented) The method of claim 12 wherein X is selected from the group consisting of $-(CH_2)_n-$, $-(CH_2)_n-CO-$, $-O-(CH_2)_n-CO-$, $-CO-N(R^{45})-D-CO-$, $-N(R^{45})-CO-(CH_2)_n-CO-$, $-N(R^{45})-CO-C(R^{46}R^{47})-CO-$, $-N(R^{45})-CO-NH-C(R^{46}R^{47})-CO-$, $-N(R^{45})-(CH_2)_n-CO-$, $-CO-N(R^{45})-C(R^{46}R^{47})-CO$ and $-Z-CO-$.

Claim 19 (previously presented) The method of claim 12 wherein R^{45} and R^{47} are hydrogen, R^{46} is hydrogen, alkyl and phenyl, D is phenylene and Z is thiazole.

Claim 20 (previously presented) The method of claim 12 wherein R^2 is hydrogen or aralkyl.

Claims 21-24 (cancelled)